

METHOD FOR INCREASING MEMORY IN A PROCESSOR

Abstract

A method for increasing the internal memory in a processor . The method includes providing an extended memory in the processor, adding bits to data addresses and register addresses with an address extender, and adding bits to stack addresses with a stack pointer generator so that the processor is capable of accessing memory addresses larger than the bit width of the command set of the processor. The method also includes carrying over the bits when the stack address exceeds the limit of the conventional memory and accessing the stack data exceeding the limit of the conventional memory in the extended memory.